CONFORMANCE TEST REPORT
FOR
EN 301489-1/-6

Report No.: 60.860.9.040.02E

Client:	Vtech Telecommunications Ltd.
Product:	DECT Phone
Model:	DECT84-C18-B95 (FP)
Manufacturer/supplier:	Vtech Telecommunications Ltd.

Date test item received:	2009/07/16
Date test campaign completed:	2009/08/25
Date of issue:	2009/08/26
Test results:	**COMPLIED**

Total number of pages of this test report: 41 pages

Approved by

Jeff Pong

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1 TEST REPORT CERTIFICATION

Client	: Vtech Telecommunications Ltd.	
Address	: 23/F, Tai Ping Industrial Centre, Block 1, 57 Ting Kok Road, Tai Po, Hong Kong	
Manufacturer	: Vtech Telecommunications Ltd.	
EUT	: DECT Phone	
Model No.	: DECT84-C18-B95 (FP)	
Test Specifications	: Emissions EN 55022:2006(Class B) EN 61000-3-2:2006 EN 61000-3-3:1995/A2:2005	Immunity EN 61000-4-2:1995/A2:2001 EN 61000-4-3:2006/A1:2008 EN 61000-4-4:2004 EN 61000-4-5:2006 EN 61000-4-6: 2007 EN 61000-4-11:2004
Regulations Applied	: EN 301489-1:V1.8.1 EN 301489-6:V1.3.1 EN 61000-3-2:2006 EN 61000-3-3:1995/A2:2005	

Test Location: T01

The testing described in this report has been carried out to the best of our knowledge and ability, and our responsibility is limited to the exercise of reasonable care. This certification is not intended to believe the sellers from their legal and/or contractual obligations.

2 GENERAL INFORMATIONS

2.1 Description of EUT:

The Test Candidate is a fixed part with integrated antennas of a cordless telephone system for 3.1 kHz voice-communications on DECT Feature phone-standard. For the integrated antennas a diversity-switch is included to the equipment. This fixed part (FP) is used in combination with a portable part (PP) for connections to the analogue public switched telephone network.

2.2 Related Informations of EUT:

Power Supply : Input: AC 100~240Vac, 50/60Hz, 0.2A. Output: DC 7.5V, 300mA

Cables dedicated for EUT:

Power Line : ■ Nonshielded □ Shielded □ None , length: 1.8 m

Control Line : □ Nonshielded □ Shielded ■ None , length: _____ m

TEL. Line : ■ Nonshielded □ Shielded □ None , length: 1.5 m

* For more detailed features, please refer to *User's Manual*.

2.3 Modification Record:

No modifications were required. (That mean the EUT has complied with the requirement as tested.)

3 SUMMARY OF TEST RESULTS

3.1 Emissions:

3.1.1 Conducted Emissions

■-PASS

Peak EMI value to the limit: -3.5 dB at 0.787 MHz

3.1.2 Radiated Emissions

■-PASS

Peak EMI value to the limit: -4.6 dB at 760.901 MHz

3.1.3 Harmonics Current Emissions

■-PASS

The harmonics current values were under the limits of the class A equipment of the EN 61000-3-2.

3.1.4 Voltage Fluctuations and Flicker

■-PASS

The voltage fluctuations and flicker values were under the limits of the EN 61000-3-3 requirements.

3.2 Immunity:

3.2.1 Immunity Criteria:

The results of all of the immunity tests performed on the EUT were evaluated according to the following criteria, and according to the manufacturer's specifications for the EUT:

Performance criterion for Continuous Phenomena applied to DECT Phone Transceivers (CT):

The BER of the signal as measured shall not exceed 1×10^{-3} during the test sequence. Additionally for equipment containing analogue speech circuits the speech output signal level shall be at least 35dB less than the previously recorded reference level. At the conclusion of the test, the EUT shall operate as intended with no loss of user control functions or stored data and the communications link shall have been maintained during and after tests. Where the EUT is capable of transmission, tests shall be performed to ensure that unintentional transmission does not occur.

Performance criterion for Transient phenomena applied to DECT Phone Transceivers (TT):

At the conclusion of each exposure the EUT shall operate with no user noticeable loss of the communications link. At the conclusion of the total test comprising the series of individual exposures the EU shall operate as intended with no loss of user control functions or stored data, as declared by the manufacturer, and the communications link shall have been maintained. Where the EUT is capable of transmission, tests shall be performed to ensure that unintentional transmission does not occur.

Performance criterion for Continuous phenomena applied to DECT Phone Receive-only equipment (CR):

The primary functions shall be verified during each individual exposure in the test sequence. Additionally for equipment containing analogue speech circuits the speech output signal level shall be at least 35 dB less than the previously recorded reference level. At the conclusion of the test, the EU shall operate as intended with no loss of user control functions or stored data, as declared by the manufacturer, and the communications link shall have been maintained. This shall be verified by checking the primary functions.

Performance criterion for Transient phenomena applied to DECT Phone Receive-only equipment (TR):

At the conclusion of each exposure the EUT shall operate with no user noticeable loss of the communications link. At the conclusion of the total test comprising the series of individual exposures the EUT shall operate as intended with no loss of user control functions or stored data, as declared by the manufacturer, and the communications link shall have been maintained. This shall be verified by checking the primary functions.

3.2.2 Electrostatic Discharge:

■-PASS

For transceivers the general performance criteria TT shall apply. For stand alone receivers the general performance criteria TR shall apply. For ancillary equipment the pass/fail criteria supplied by the manufacturer shall apply, unless the ancillary equipment is tested in connection with receivers or transceivers in which case the corresponding performance criteria above shall apply.

3.2.3 Radio Frequency Electromagnetic Field (80~1000MHz and 1400~2700MHz):

■-PASS

For transceivers the general performance criteria CT shall apply. For stand alone receivers the general performance criteria CR shall apply. For ancillary equipment the pass/fail criteria supplied by the manufacturer shall apply, unless the ancillary equipment is tested in connection with receivers or transceivers in which case the corresponding performance criteria above shall apply.

3.2.4 Fast Transients Common Mode:

■-PASS

For transceivers the general performance criteria TT shall apply. For stand alone receivers the general performance criteria TR shall apply. For ancillary equipment the pass/fail criteria supplied by the manufacturer shall apply, unless the ancillary equipment is tested in connection with receivers or transceivers in which case the corresponding performance criteria above shall apply.

3.2.5 Surges, Common and Differential Mode:

■-PASS

For transceivers the general performance criteria TT shall apply. For receivers the general performance criteria TR shall apply. For ancillary equipment the pass/fail criteria supplied by the manufacturer shall apply, unless the ancillary equipment is tested in connection with receivers or transceivers in which case the corresponding performance criteria above shall apply.

3.2.6 RF Common Mode, 0.15~80MHz:

■-PASS

For transceivers the general performance criteria CT shall apply. For stand alone receivers the general performance criteria CR shall apply. For ancillary equipment the pass/fail criteria supplied by the manufacturer shall apply, unless the ancillary equipment is tested in connection with receivers or transceivers in which case the corresponding performance criteria above shall apply.

3.2.7 Voltage Dips and Interruptions:

■-PASS

For transceivers the general performance criteria CT shall apply. For stand alone receivers the general performance criteria CR shall apply. For ancillary equipment the pass/fail criteria supplied by the manufacturer shall apply, unless the ancillary equipment is tested in connection with receivers or transceivers in which case the corresponding performance criteria above shall apply.

4 TEST DATA & RELATED INFORMATIONS

4.1 Emissions:

4.1.1 Conducted Emissions Test:

4.1.1.1 Conducted Emissions Test Data:

A. Operating Conditions of the EUT: Talking Mode

Test Date: Jul. 28, 2009

Test Specification	EN 55022:2006 (Class B)	
Test Equipment	Calibration Date	Recommended Recal. Date
EMI Test Receiver\R&S\ESCS30 LISN\Telemeter\NNB-2/16Z LISN\EMCO\37100/2M	Aug. 14, 2008 Mar. 30, 2009 Feb. 12, 2009	Aug. 13, 2009 Mar. 29, 2010 Feb. 11, 2010
Climatic Condition	Ambient Temperature: 25。C	Relative Humidity: 52 % RH
Power Supply System	AC Power: 230 Vac 50 Hz	
Test Set-up	Table-top Equipment	

Freq. (MHz)	**Meter Reading** (dBuV)				**Factor** (dB)	**Result** (dBuV)				**Limit** (dBuV)		**Margins** (dB)
	Q.P. Value		AVG. Value			Q.P. Value		AVG. Value		Q.P. Value	AVG. Value	Q.P. or AVG.
	L1	L2	L1	L2		L1	L2	L1	L2			
0.154	***	40.0	----	----	0.3	***	40.3	----	----	65.8	55.8	-25.5
0.162	46.7	***	----	----	0.1	46.8	***	----	----	65.4	55.4	-18.6
0.291	***	40.1	----	----	0.3	***	40.4	----	----	60.5	50.5	-20.1
0.685	49.8	***	26.9	----	0.1	49.9	***	27.0	----	56.0	46.0	-6.1
0.685	***	46.2	----	13.5	0.3	***	46.5	----	13.8	56.0	46.0	-9.5
0.728	48.4	***	28.8	----	0.1	48.5	***	28.9	----	56.0	46.0	-7.5
0.728	***	49.0	----	8.6	0.3	***	49.3	----	8.9	56.0	46.0	-6.7
0.787	52.4	***	27.3	----	0.1	52.5	***	27.4	----	56.0	46.0	-3.5
0.838	***	46.1	----	12.4	0.3	***	46.4	----	12.7	56.0	46.0	-9.6
0.927	46.2	***	25.8	----	0.1	46.3	***	25.9	----	56.0	46.0	-9.7
3.318	***	38.2	----	----	0.4	***	38.6	----	----	56.0	46.0	-17.4
3.466	38.3	***	----	----	0.1	38.4	***	----	----	56.0	46.0	-17.6

Notes: 1) Place of measurement: EMC LAB. of the ETC (1F)

2) The EUT was placed 0.8m above reference ground plane.

3) Example calculation: result for 0.154 MHz: 40.0+ 0.3= 40.3 dB μ V

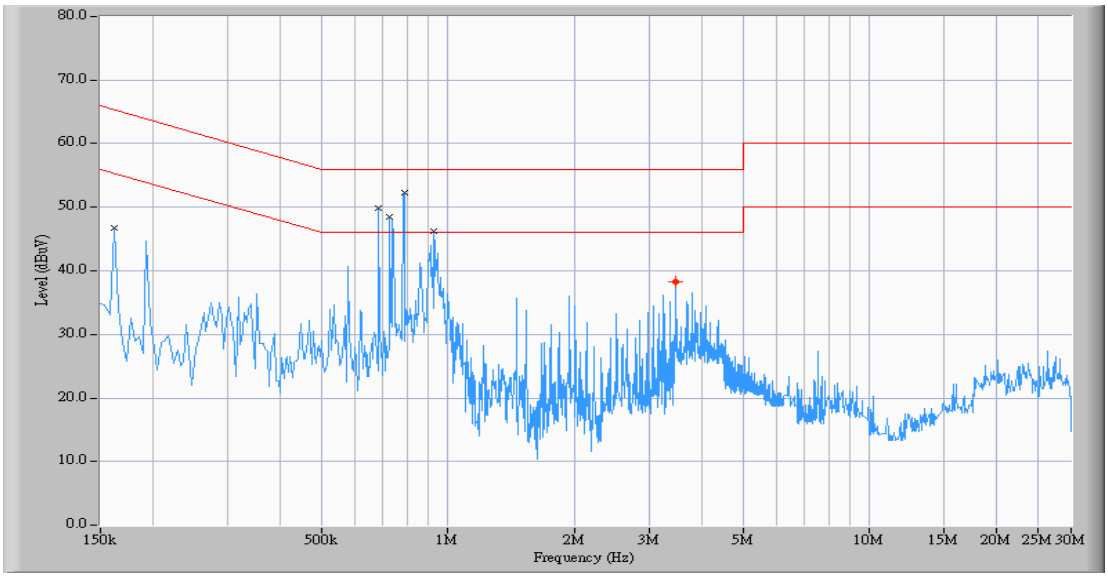
4) ① If the data table appeared symbol of "***" means the value was too low to be measured.

② If the data table appeared symbol of "----" means the Q.P. value is under the limit for AVG. so, the AVG. value doesn't need to be measured.

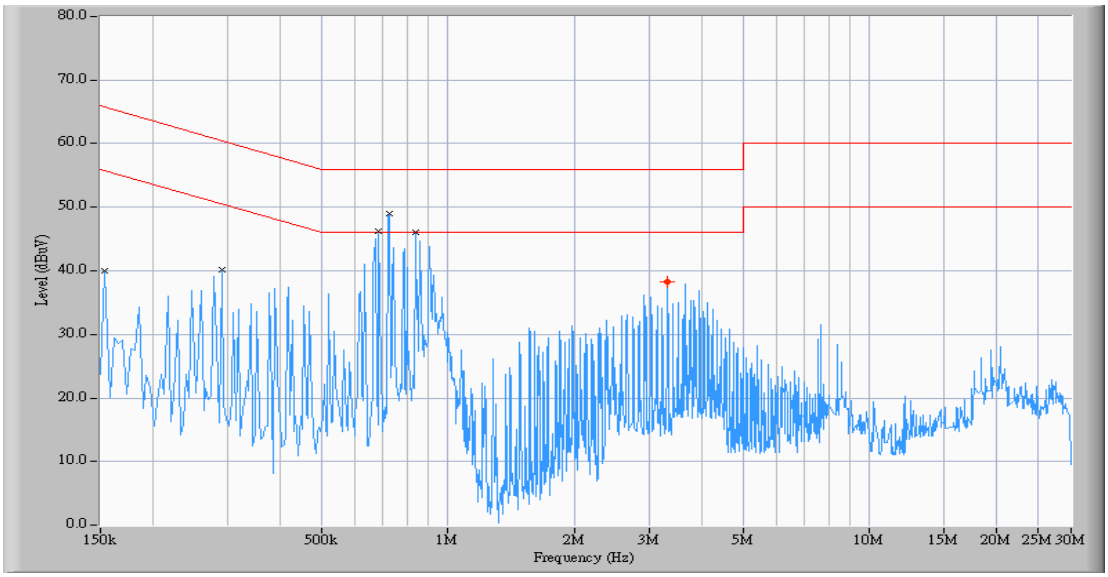
③ If the data table appeared symbol of “#“ means the noise was low, so record the peak value.

5) The estimated measurement uncertainty of the result measurement is ±3.6, 95%, K=2, (150 KHz-30 MHz)

Power Line-L1



Power Line-L2



B. Operating Conditions of the EUT: Talking Mode

Test Date: Jul. 28, 2009

Test Specification	EN 55022: 2006 (Class B)	
Test Equipment	Calibration Date	Recommended Recal. Date
EMI Test Receiver\R&S\ESCS30 Current probe\Schaffner\SMZ11	Aug. 14, 2008 Mar. 31, 2009	Aug. 13, 2009 Mar. 30, 2010
Climatic Condition	Ambient Temperature: 25◦ C	Relative Humidity: 52 % RH
Power Supply System	AC Power: 230 Vac 50 Hz	
Test Set-up	Table-top Equipment	

Freq. (MHz)	**Meter Reading** (dBuA)		**Factor** (dB)	**Result** (dBuA)		**Limit** (dBuA)		**Margins** (dB)
	Q.P. Value	AVG. Value		Q.P. Value	AVG. Value	Q.P. Value	AVG. Value	Q.P. or AVG.
	ISN	ISN		ISN	ISN			
0.162	11.2	----	0.1	11.3	----	39.4	29.4	-28.1
0.181	11.2	----	0.1	11.3	----	38.4	28.4	-27.1
0.988	16.7	----	0.1	16.8	----	30.0	20.0	-13.2
8.270	10.8	----	0.2	11.0	----	30.0	20.0	-19.0
14.750	11.7	----	0.3	12.0	----	30.0	20.0	-18.0
23.586	11.9	----	0.4	12.3	----	30.0	20.0	-17.7

Notes: 1) Place of measurement: EMC LAB. of the ETC (1F)

2) The EUT was placed 0.4m above reference ground plane.

3) Example calculation: result for 0.162 MHz: 11.2 + (0.1) = 11.3 dB μ A

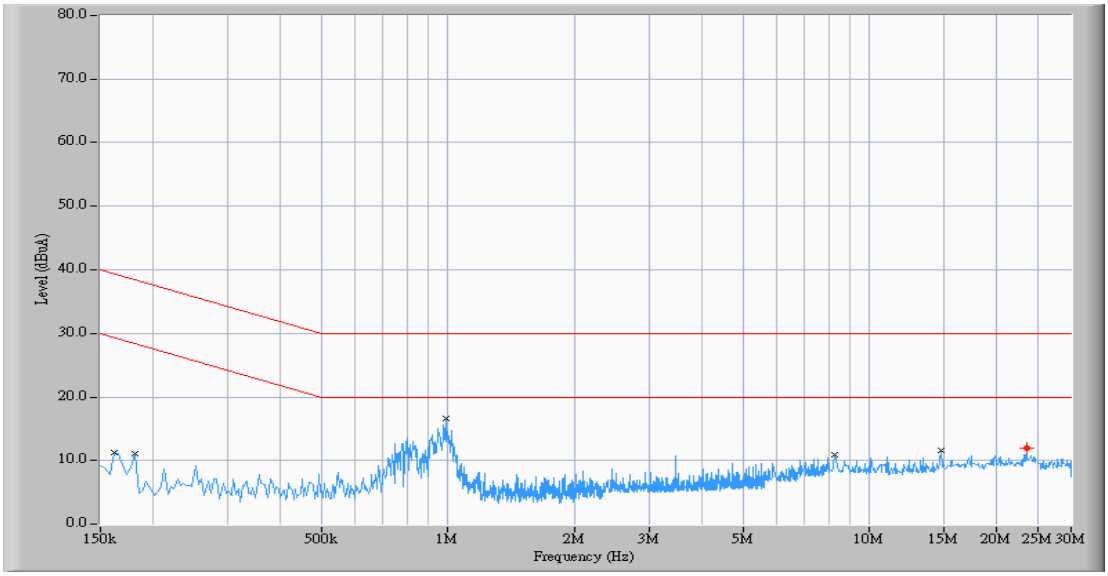
4) ① If the data table appeared symbol of "***" means the value was too low to be measured.

② If the data table appeared symbol of "----" means the Q.P. value is under the limit for AVG. so, the AVG. value doesn't need to be measured.

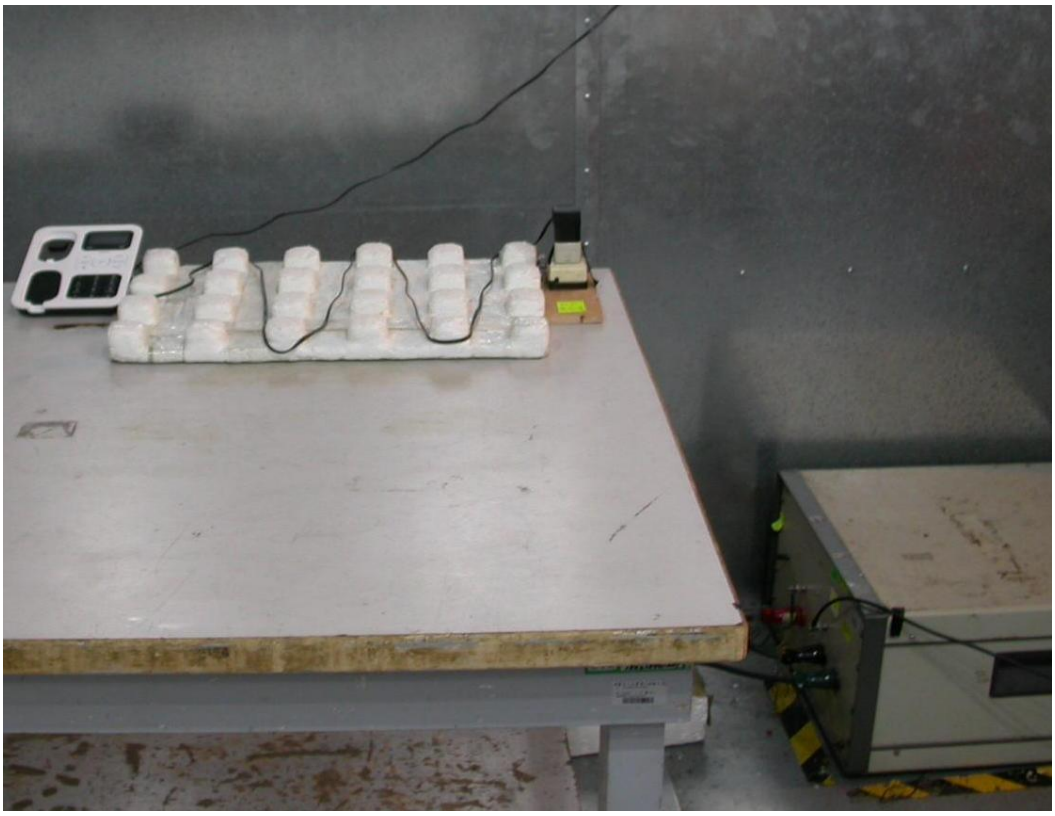
③ If the data table appeared symbol of “#“ means the noise was low, so record the peak value.

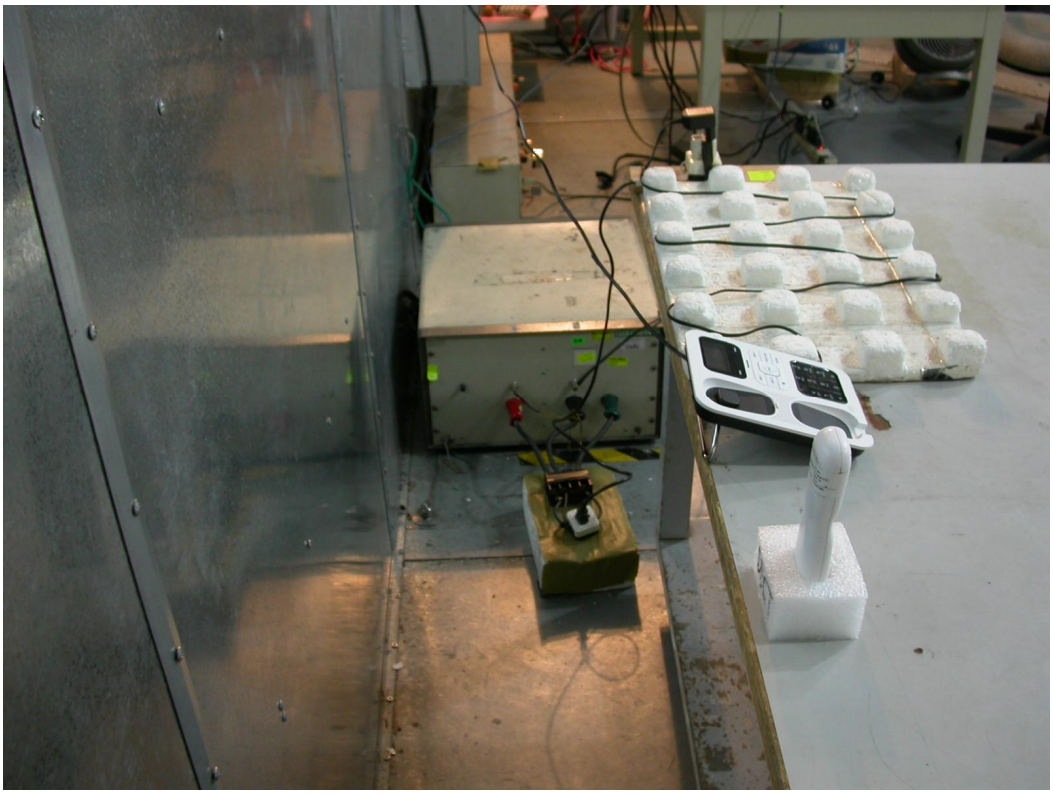
5) The estimated measurement uncertainty of the result measurement is ±3.6, 95%, K=2, (150 KHz-30 MHz)

TEL Line-ISN


80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
Level (dBuA)
150k
500k
1M
2M
3M
5M
10M
15M
20M
25M
30M
Frequency (Hz)

4.1.1.2 Conducted Emissions Test Setup Photos:





4.1.2 Radiated Emissions Test:

4.1.2.1 Radiated Emissions Test Data:

A. Operating Conditions of the EUT: Talking Mode

Test Date: Jul. 27, 2009

Test Specification	EN 55022:2006 (Class B)	
Test Equipment	Calibration Date	Recommended Recal. Date
EMI Test Receiver\R&S\ESCS30	Nov. 03, 2008	Nov. 02, 2009
Ant.- LogBiconi\EMCO\3142	May 12, 2009	May 11, 2010
Spectrum\R&S\FSU	Nov. 25, 2008	Nov. 24, 2009
Horn Ant.\EMCO\3115	Jun. 12, 2009	Jun. 11, 2010
Preamp\HP\8449B	Oct. 09, 2008	Oct. 08, 2009
Climatic Condition	Ambient Temperature: 31◦ C	Relative Humidity: 58 % RH
Power Supply System	AC Power: 230 Vac 50 Hz	
Test Set-up	Table-top Equipment	

Measurement Distance: 10 m (30MHz~1GHz)

Emission **Frequency** (MHz)	**Meter Reading** (dBuV)		CORR'd **Factor** (dB/m)	**Results** (dBuV/m)		**Limit** (dBuV/m)	**Margins** (dB)
	HOR.	**VERT.**		**HOR.**	**VERT.**		
39.719	2.6	4.1	18.6	21.2	22.7	30.0	-7.3
86.372	***	12.9	8.9	***	21.8	30.0	-8.2
144.689	***	10.5	11.1	***	21.6	30.0	-8.4
168.016	11.6	***	11.0	22.6	***	30.0	-7.4
224.388	***	9.4	13.2	***	22.6	30.0	-7.4
414.889	10.0	***	20.8	30.8	***	37.0	-6.2
550.962	***	2.3	25.5	***	27.8	37.0	-9.2
595.671	5.2	***	26.2	31.4	***	37.0	-5.6
628.717	***	4.1	26.8	***	30.9	37.0	-6.1
733.687	2.3	***	28.9	31.2	***	37.0	-5.8
760.901	3.1	***	29.3	32.4	***	37.0	-4.6

Measurement Distance: 3m (1GHz~6GHz)

Emission **Frequency** (MHz)	**Meter Reading@3m** (dBuV)				CORR'd **Factor** (dB/m)	**Max Results** (dBuV/m)		**Limit@3m** (dBuV/m)		**Margins** (dB)
	HOR.		**VERT.**			**HOR.**	**VERT.**			
	PK	**AV**	**PK**	**AV**		**PK**	**AV**	**PK**	**AV**	
3796.263	52.1	34.3	52.4	34.6	-3.2	49.2	31.4	74	54	-22.6
5697.694	52.3	34.2	52.7	34.4	-0.4	52.3	34.0	74	54	-20.0

Notes: 1) Place of Measurement: Measuring site of the ETC (3F)
2) Measurement Distance: 10 m (30MHz~1GHz), 3m (1GHz~6GHz)
3) Height of table on which the EUT was placed: 0.8 m
4) Height of Receiving Antenna: 1 - 4 m
5) Example Calculation: result for 39.719 MHz 2.6+ (18.6) = 21.2 dB μ V/m
6) ① If the data table appeared symbol of "***" means the value was too low to be measured.
② If the data table appeared symbol of "----" means the Q.P. value is under the limit for AVG. so, the AVG. value doesn't need to be measured.
③ If the data table appeared symbol of "#" means the noise was low, so record the peak
7) The estimated measurement uncertainty of the result measurement is ±5.06, 95%, K=2, (30 MHz-1000 MHz)

4.1.2.2 Radiated Emissions Test Setup Photos:

4.1.3 Harmonics Current Emissions Test:

4.1.3.1 Harmonics Current Emissions Test Data:

A. Operating Conditions of the EUT: Talking Mode

Test Date: Jul. 23, 2009

Test Specification	EN 61000-3-2: 2006		
Test Equipment		Calibration Date	Recommended Recal. Date
Power Analysis System\California Instruments\ MX45-3PI-413 (PACS-3)		Oct. 02, 2008	Oct. 01, 2009
Climatic Condition	Ambient Temperature: 22◦ C		Relative Humidity: 53 % RH
Power Supply System	AC Power: 230 Vac 50 Hz		
Test Set-up	Table-top Equipment		

Test data see the next page.

Current Test Result Summary (Run time)

EUT: Tested by:
Test category: Class-A per Ed. 2.2 (European limits) Test Margin: 100
Test date: 2009/7/23 Start time: 上午 09:28:47 End time: 上午 09:31:58
Test duration (min): 3 Data file name: CTSMXL_H-000493.cts_data
Comment:
Customer:

Test Result: Pass Source qualification: Normal
THC(A): 0.021 I-THD(pk%): 447.855 POHC(A): 0.003 POHC Limit(A): 0.251
Highest parameter values during test:

V_RMS (Volts):	229.97	Frequency(Hz):	50.01
I_Peak (Amps):	0.202	I_RMS (Amps):	0.023
I_Fund (Amps):	0.006	Crest Factor:	11.820
Power (Watts):	1.7	Power Factor:	0.327

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.006	1.080	0.5	0.008	1.620	0.46	Pass
3	0.005	2.300	0.2	0.007	3.450	0.20	Pass
4	0.005	0.430	1.2	0.007	0.645	1.08	Pass
5	0.005	1.140	0.4	0.007	1.710	0.38	Pass
6	0.005	0.300	1.6	0.006	0.450	1.44	Pass
7	0.004	0.770	0.6	0.006	1.155	0.50	Pass
8	0.004	0.230	1.9	0.006	0.345	1.62	Pass
9	0.004	0.400	1.0	0.005	0.600	0.84	Pass
10	0.004	0.184	2.0	0.005	0.276	1.67	Pass
11	0.003	0.330	1.0	0.004	0.495	0.84	Pass
12	0.003	0.153	2.1	0.004	0.230	1.67	Pass
13	0.003	0.210	1.4	0.003	0.315	1.07	Pass
14	0.003	0.131	2.0	0.003	0.197	1.53	Pass
15	0.002	0.150	1.6	0.003	0.225	1.19	Pass
16	0.002	0.115	1.9	0.002	0.173	1.40	Pass
17	0.002	0.132	1.5	0.002	0.199	1.10	Pass
18	0.002	0.102	1.8	0.002	0.153	1.31	Pass
19	0.002	0.118	1.4	0.002	0.178	1.03	Pass
20	0.002	0.092	1.7	0.002	0.138	1.24	Pass
21	0.001	0.107	1.3	0.002	0.161	0.99	Pass
22	0.001	0.084	1.6	0.002	0.125	1.23	Pass
23	0.001	0.098	1.3	0.001	0.147	1.00	Pass
24	0.001	0.077	1.5	0.001	0.115	1.24	Pass
25	0.001	0.090	1.3	0.001	0.135	1.01	Pass
26	0.001	0.071	1.5	0.001	0.106	1.21	Pass
27	0.001	0.083	1.2	0.001	0.125	1.01	Pass
28	0.001	0.066	1.5	0.001	0.099	1.20	Pass
29	0.001	0.078	1.2	0.001	0.116	0.97	Pass
30	0.001	0.061	1.5	0.001	0.092	1.20	Pass
31	0.001	0.073	1.2	0.001	0.109	0.95	Pass
32	0.001	0.058	1.5	0.001	0.086	1.15	Pass
33	0.001	0.068	1.2	0.001	0.102	0.92	Pass
34	0.001	0.054	1.5	0.001	0.081	1.11	Pass
35	0.001	0.064	1.2	0.001	0.096	0.89	Pass
36	0.001	0.051	1.5	0.001	0.077	1.09	Pass
37	0.001	0.061	1.2	0.001	0.091	0.87	Pass
38	0.001	0.048	1.4	0.001	0.073	1.03	Pass
39	0.001	0.058	1.2	0.001	0.087	0.84	Pass
40	0.001	0.046	1.3	0.001	0.069	0.97	Pass

4.1.3.2 Harmonics Current Emissions Test Setup Photos:

4.1.4 Voltage Fluctuations and Flicker Test:

4.1.4.1 Voltage Fluctuations and Flicker Test Data:

A. Operating Conditions of the EUT: Talking Mode

Test Date: Jul. 23, 2009

Test Specification	EN 61000-3-3:1995/A2:2005		
Test Equipment		Calibration Date	Recommended Recal. Date
Power Analysis System\California Instruments\ MX45-3PI-413 (PACS-3)		Oct. 02, 2008	Oct. 01, 2009
Climatic Condition	Ambient Temperature: 22◦ C		Relative Humidity: 53 % RH
Power Supply System	AC Power: 230 Vac 50 Hz		
Test Set-up	Table-top Equipment		

	Test Data	Limit	Pass or Fail
Plt	0.070	0.65	Pass
Pst	0.160	1.00	Pass
dt	0.00%	3.3 %	Pass
dmax	0.00%	4.0%	Pass
dc	0.00%	3.3%	Pass

4.1.4.2 Voltage Fluctuations and Flicker Test Setup Photos:

4.2 Immunity:

4.2.1 Electrostatic Discharge:

4.2.1.1 Electrostatic Discharge Test Data:

A. Operating Conditions of the EUT: Talking Mode

Test Date: Aug. 25, 2009

Test Specification	EN 61000-4-2: 1995/A2:2001	
Test Equipment	Calibration Date	Recommended Recal. Date
ESD Simulator\EMC PARTNER\ESD3000	Jul. 02, 2009	Jul. 01, 2010
Climatic Condition	Ambient Temperature: 23 ◦C Relative Humidity: 53 % RH Atmospheric Pressure: 989 mbar	
Power Supply System	AC Power: 230 Vac 50 Hz	
Test Set-up	Table-top Equipment	

Test Points	Contact Discharge (kV): Criterion					Air Discharge (kV): Criterion					Test times and voltage at each condition	
1.EUT-VCP	■2: **A**	■4: **A**	□ 6: _	□ 8: _	□ _: _	□ 2: _	□ 4: _	□ 8: _	□ 15: _	□ _: _	■10..neg	■10..pos
2.EUT-HCP	■2: **A**	■4: **A**	□ 6: _	□ 8: _	□ _: _	□ 2: _	□ 4: _	□ 8: _	□ 15: _	□ _: _	■10..neg	■10..pos
3.EUT-charge point	■2: **A**	■4: **A**	□ 6: _	□ 8: _	□ _: _	□ 2: _	□ 4: _	□ 8: _	□ 15: _	□ _: _	■10..neg	■10..pos
4.EUT-Top Side	□ 2: _	□ 4: _	□ 6 : _	□ 8: _	□ _: _	■2: **A**	■4: **A**	■8: **A**	□ 15: _	□ _: _	■10..neg	■10..pos
5.EUT-Bottom Side	□ 2: _	□ 4: _	□ 6 : _	□ 8: _	□ _: _	■2: **A**	■4: **A**	■8: **A**	□ 15: _	□ _: _	■10..neg	■10..pos
5.EUT-Front Side	□ 2: _	□ 4: _	□ 6: _	□ 8: _	□ _: _	■2: **A**	■4: **A**	■8: **A**	□ 15: _	□ _: _	■10..neg	■10..pos
6.EUT-Rear Side	□ 2: _	□ 4: _	□ 6: _	□ 8: _	□ _: _	■2: **A**	■4: **A**	■8: **A**	□ 15: _	□ _: _	■10..neg	■10..pos
7.EUT-Right Side	□ 2: _	□ 4: _	□ 6: _	□ 8: _	□ _: _	■2: **A**	■4: **A**	■8: **A**	□ 15: _	□ _: _	■10..neg	■10..pos
8.EUT-Left Side	□ 2: _	□ 4: _	□ 6: _	□ 8: _	□ _: _	■2: **A**	■4: **A**	■8: **A**	□ 15: _	□ _: _	■10..neg	■10..pos

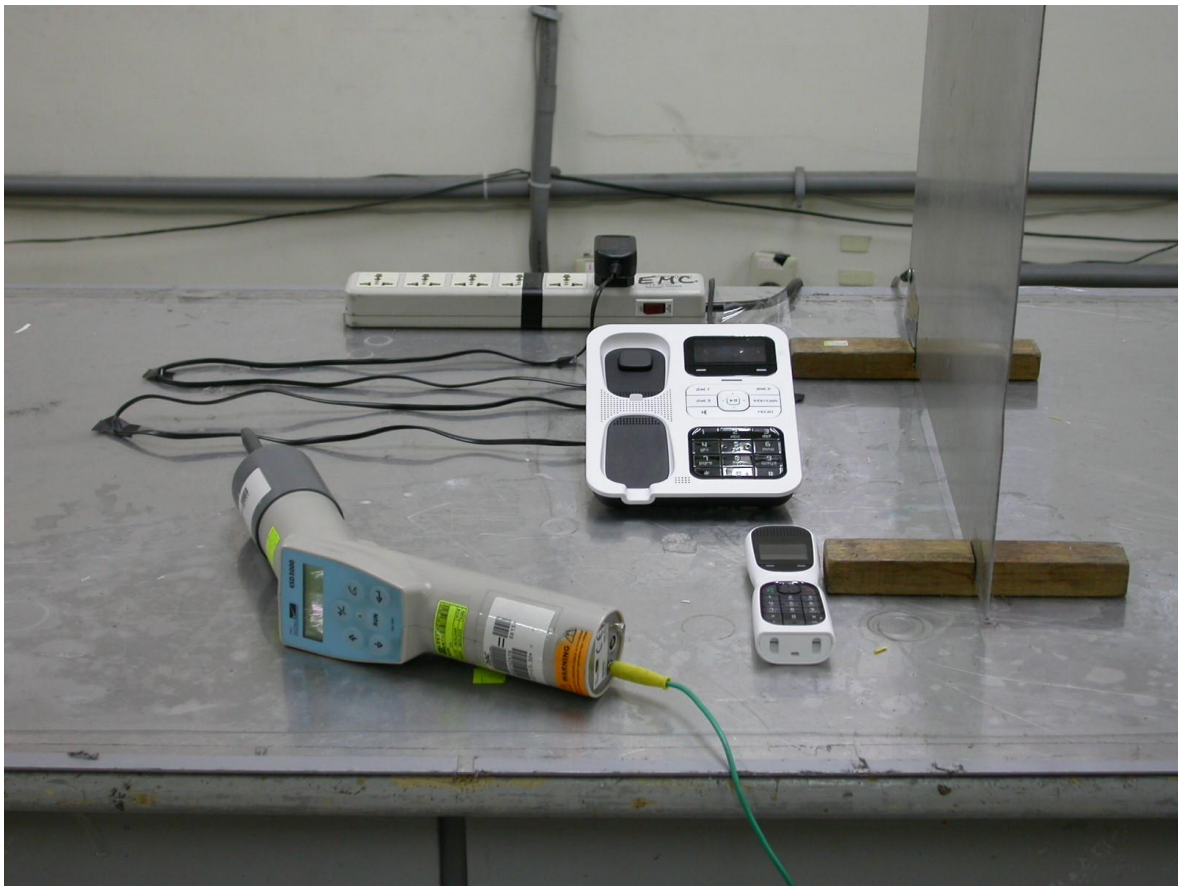
Result:	■ Complied	□ Does not comply	
Criterion Required:	B	Criterion Met:	A

Note: " A " means the EUT operates with ■ no loss of functions.

■ no unintentional responses during and after test.

" -- " means the test is not applicable.

4.2.1.2 Electrostatic Discharge Test Setup Photos:



4.2.2 Radio Frequency Electromagnetic Field (80~1000MHz and 1400~2700MHz):

4.2.2.1 Radio Frequency Electromagnetic Field Test Data:

A. Operating Conditions of the EUT: Talking Mode

Test Date: Aug. 24, 2009

Test Specification	EN 61000-4-3:2006/A1:2008	
Test Equipment	Calibration Date	Recommended Recal. Date
Microphone\B&K\4134	Nov. 20, 2008	Nov. 19, 2009
Conditioning Amplifier\B&K\type 2690	Nov. 20, 2008	Nov. 19, 2009
Audio Analyzer\R&S\UPV	Jan. 30, 2009	Jan. 29, 2010
IMS Integrated Measurement System\R&S\IMS	Sep. 29, 2008	Sep. 28, 2009
RF Power Amplifier\AR\50S1G4AM1	Jun. 03, 2009	Jun. 02, 2010
RF Power Amplifier \AR\250W1000AM1	Jun. 03, 2009	Jun. 02, 2010
DECT Tester\R&S\CTS60	Mar. 03, 2009	Mar. 02, 2010
Climatic Condition	Ambient Temperature: 22 ◦C	Relative Humidity: 51 % RH
Power Supply System	AC Power: 230 Vac 50 Hz	
Test Set-up	Table-top Equipment	

Frequency Range : 80 MHz ~ 1000 MHz 1400 MHz ~ 2700 MHz	Field Strength: 3 V/m	Modulation (AM 1kHz 80%)
Sweep Rate: ≤ 1.5×10^{-3} decades/s	Step Size: ≤ 1 % of preceding frequency value	Dwell Time: 2.9 s

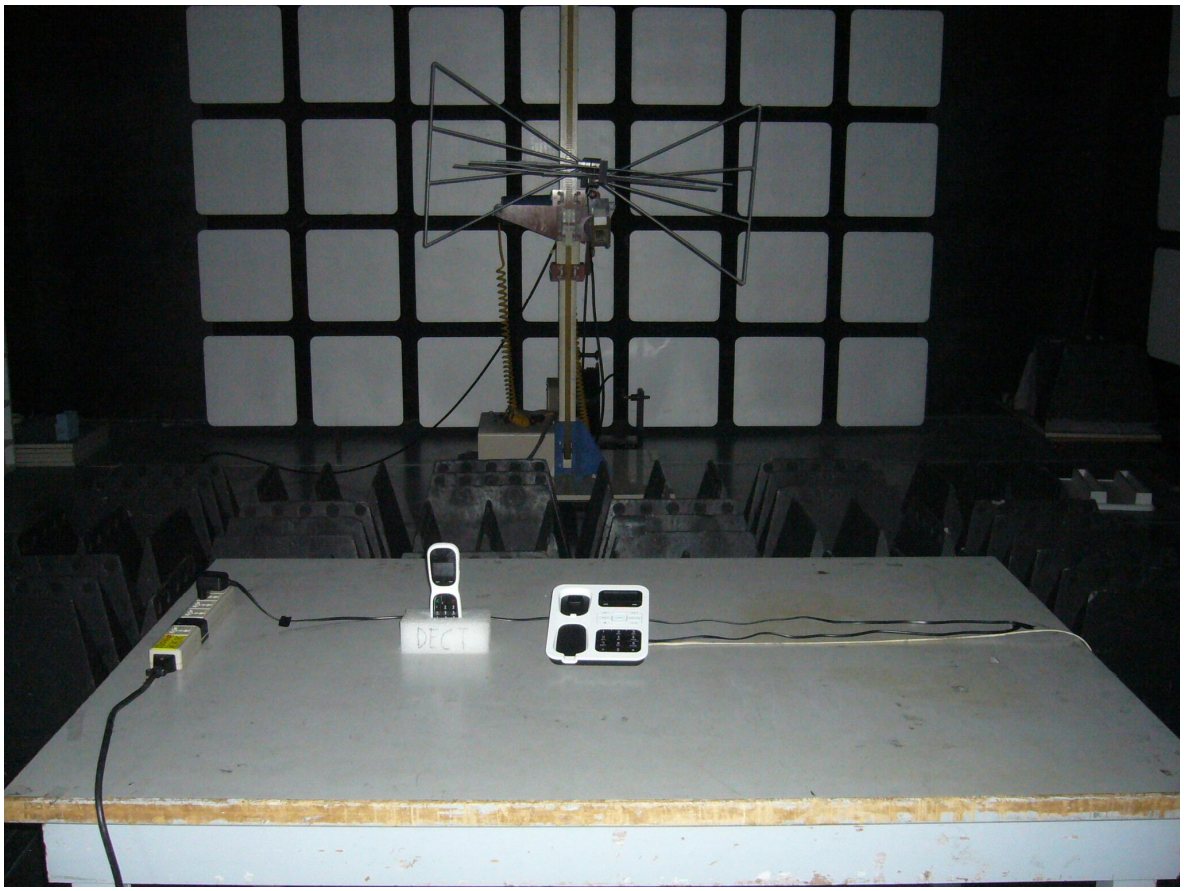
Frequency Range (MHz)	Polarization of Device	Test Result
80~1000	Vertical	A
80~1000	Horizontal	A
1400~2700	Vertical	A
1400~2700	Horizontal	A

Note: " A " means the EUT operates with ■ BER less or equal than 1×10^{-3} during the test sequence.
■ the speech output signal level at least 35dB less than the previously recorded reference level.
■ no loss of user control functions or stored data and maintained communication link during and after the tests.
■ no unintentional transmission.

Remarks: Testing has been conducted at 3-meter anechoic chamber.

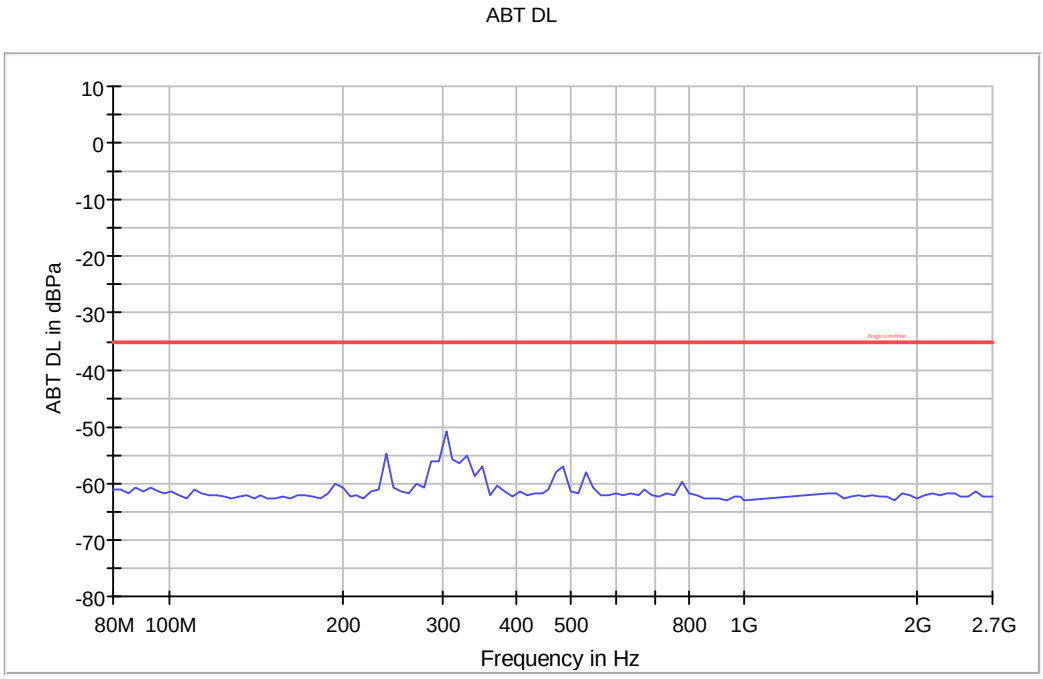
4.2.2.2 Radio Frequency Electromagnetic Field (80~1000MHz and 1400~2700MHz)

Test Setup Photos:



Common Information

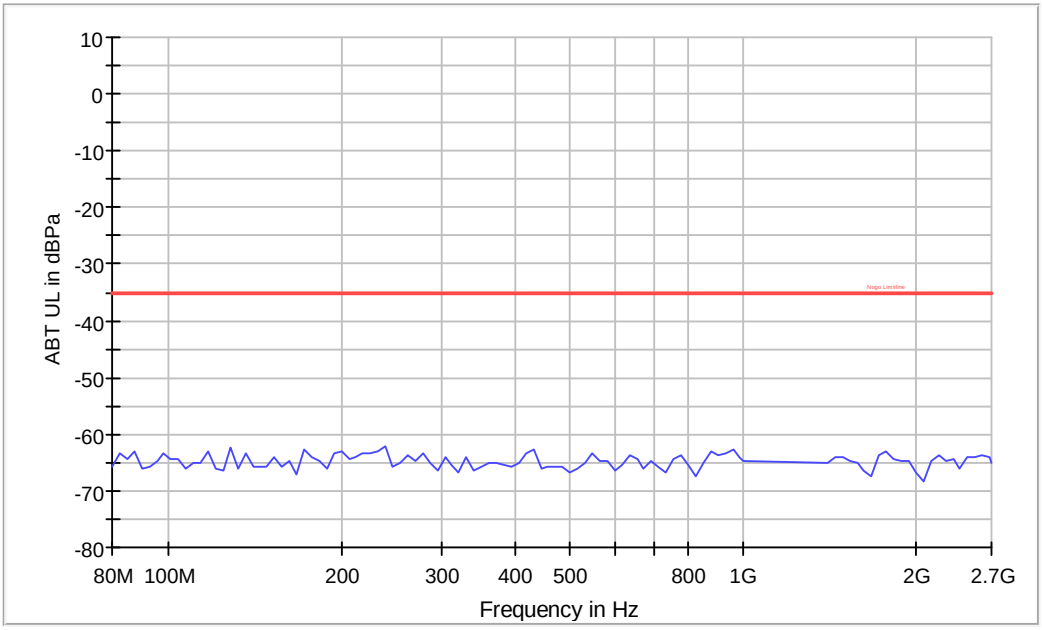
Test Description:	Hor
Operating Conditions:	DL
Operator Name:	Eric
Comment:	



Common Information

Test Description:	Hor
Operating Conditions:	UL
Operator Name:	Eric
Comment:	

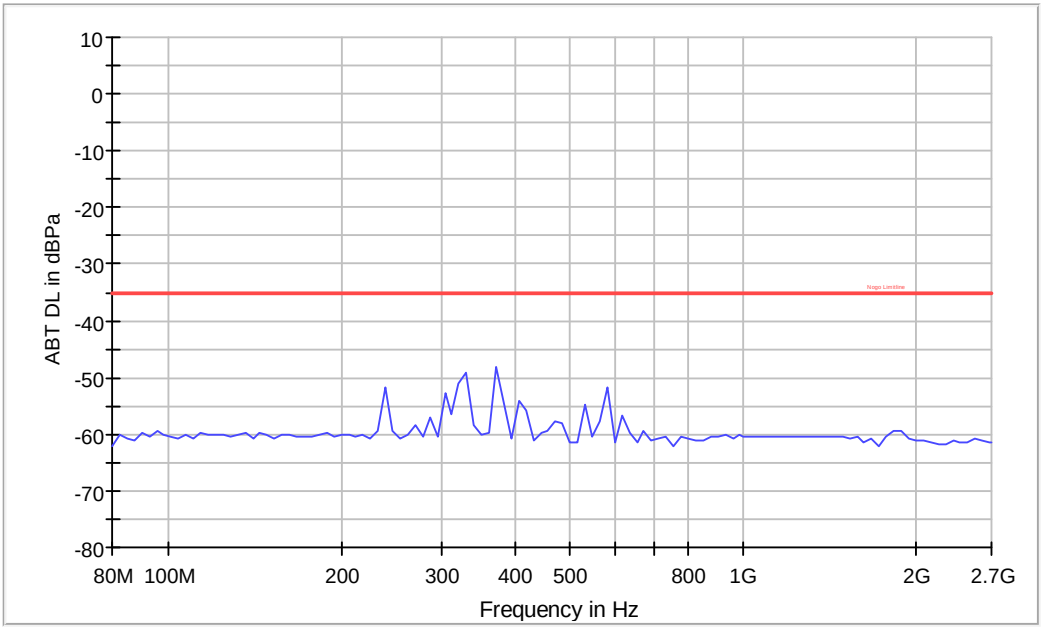
ABT UL



Common Information

Test Description:	Ver
Operating Conditions:	DL
Operator Name:	Eric
Comment:	

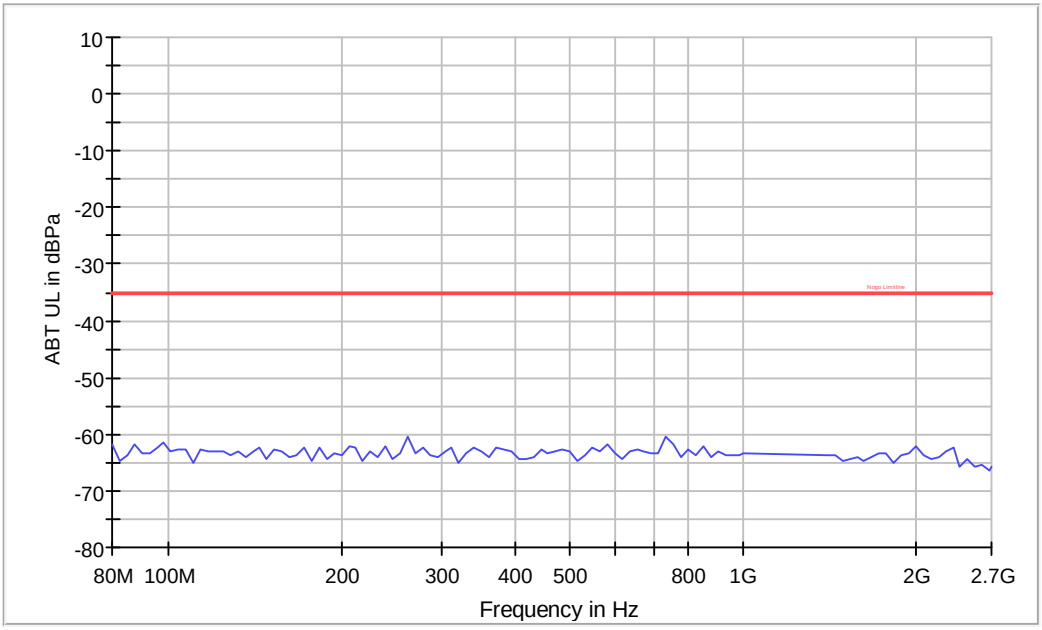
ABT DL



Common Information

Test Description:	Ver
Operating Conditions:	UL
Operator Name:	Eric
Comment:	

ABT UL



4.2.3 Fast Transients Common Mode:

4.2.3.1 Fast Transients Common Mode Test Data:

A. Operating Conditions of the EUT: Talking Mode

Test Date: Jul. 23, 2009

Test Specification	EN 61000-4-4:2004	
Test Equipment	Calibration Date	Recommended Recal. Date
EFT Generator/Clamp\Noiseken\FNS-AXII	Oct. 02, 2008	Oct. 01, 2009
Climatic Condition	Ambient Temperature: 23 ◦C Relative Humidity: 52 % RH Atmospheric Pressure: 991 mbar	
Power Supply System	AC Power: 230 Vac 50 Hz	
Test Set-up	Table-top Equipment	

Pulse: 5 /50ns Burst: 15ms /300ms		Repetition Rate: 2.5kHz above 2.0kV 5kHz below and equal 2.0kV		Test time: 1 min/each condition	
\Voltage\Polarity\ \Test Point\Mode\Result\		1.0 kV		0.5 kV	
		+	-	+	-
Power Line	L	A	A	--	--
	N	A	A	--	--
TEL Line		--	--	A	A

Note: " A " means the EUT operates with ■ no user noticeable loss of the communication Link.
■ no loss of user control functions or stored data.
■ no unintentional transmission.

" -- " means the test is not applicable.

4.2.3.2 Fast Transients Common Mode Test Setup Photos:

1. Power Line

2. Tel Line

4.2.4 Surge, Common and Differential Mode:

4.2.4.1 Surge, Common and Differential Mode Test Data:

A. Operating Conditions of the EUT: Talking Mode

Test Date: Jul. 23, 2009

Test Specification	EN 61000-4-5: 2006	
Test Equipment	Calibration Date	Recommended Recal. Date
EMC Immunity Test System\THERMO\EMCPRO PLUS	Oct. 24, 2008	Oct. 23, 2009
Climatic Condition	Ambient Temperature: 23◦ C Relative Humidity: 52 % RH Atmospheric Pressure: 991 mbar	
Power Supply System	AC Power: 230 Vac 50 Hz	
Test Set-up	Table-top Equipment	

Waveform: 1.2/50μs(8/20μs)			Repetition rate: 60 sec			Times: 5 times/each condition
\Phase \Voltage \Mode \Polarity \Result			**0°**	**90°**	**180°**	**270°**
1.0 kV	L – N	+	A	A	A	A
		–	A	A	A	A

Waveform: 1.2/50μs(8/20μs)	Repetition rate: 60 sec		Times: 5 times/each condition	
\Voltage	0.5 kV		0.5 kV	
\Turn earth	TIP		RING	
\Testing mode \Result \Polarity	+	–	+	–
TEL Line	A	A	A	A

Note: " A " means the EUT operates with ■ no user noticeable loss of the communication Link.
■ no loss of user control functions or stored data.
■ no unintentional transmission.

4.2.4.2 Surge, Common and Differential Mode Test Setup Photos:

4.2.5 RF Common Mode, 0.15MHz~80MHz:

4.2.5.1 RF Common Mode, 0.15MHz~80MHz Test Data:

A. Operating Conditions of the EUT: Talking Mode

Test Date: Aug. 24, 2009

Test Specification	EN 61000-4-6: 2007	
Test Equipment	Calibration Date	Recommended Recal. Date
Microphone\B&K\4134	Nov. 20, 2008	Nov. 19, 2009
Conditioning Amplifier\B&K\type 2690	Nov. 20, 2008	Nov. 19, 2009
Audio Analyzer\R&S\UPV	Jan 30, 2009	Jan 29, 2010
IMS Integrated Measurement System\R&S\IMS	Sep. 29, 2008	Sep. 28, 2009
Wideband RF Power Amplifier\AR\250A250AM1	May 27, 2009	May 26, 2010
801-6 Coupling Network-M2\FCC\4412-025	Nov. 27, 2008	Nov. 26, 2009
801-6 Coupling Network-T2\FCC\FCC-801-T2	Nov. 27, 2008	Nov. 26, 2009
DECT Tester\R&S\CTS60	Mar. 03, 2009	Mar. 02, 2010
Climatic Condition	Ambient Temperature: 22 ◦ C	Relative Humidity: 51 % RH
Power Supply System	AC Power: 230 Vac 50 Hz	
Test Set-up	Table-top Equipment	

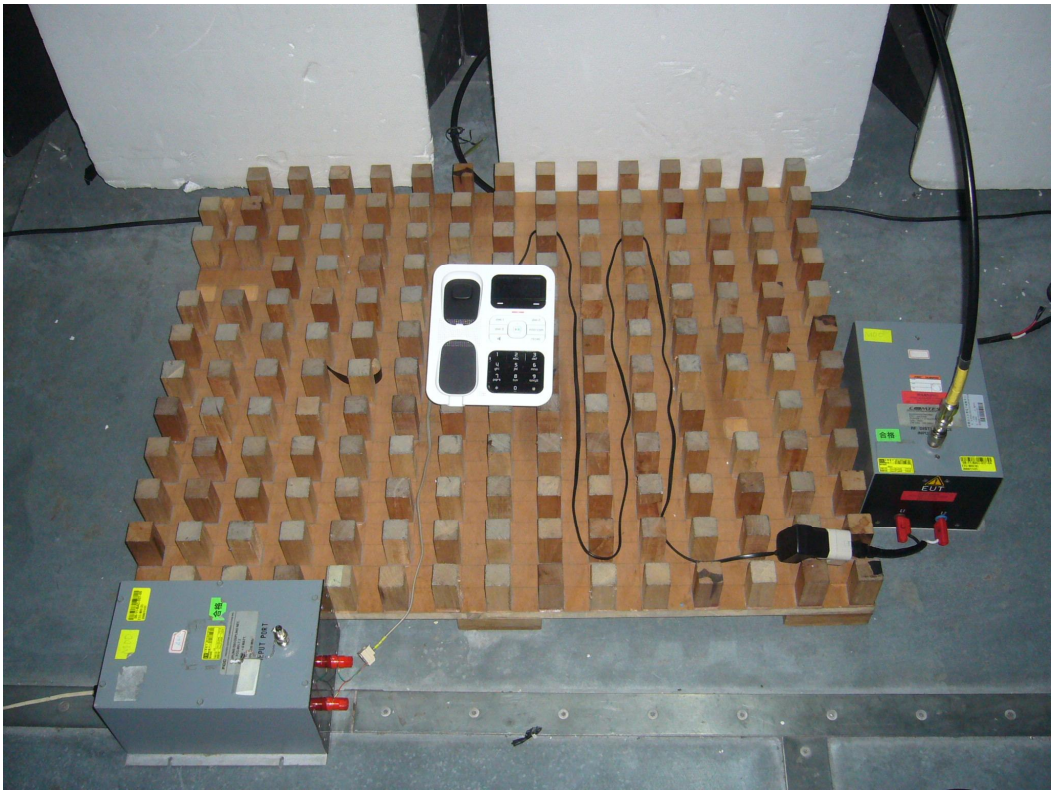
Frequency Range: 0.15 MHz ~ 80 MHz	Test Voltage: 3 V	Modulation (AM 1kHz 80%)
Sweep Rate: ≤ 1.5×10^{-3} decades/s	Step Size: ≤ 1 % of preceding frequency value	Dwell Time: 2.9 s

Frequency Range (MHz)	Tested Line	Test Result
0.15~80	Power Line (M2)	A
0.15~80	Tel. Line (T2)	A

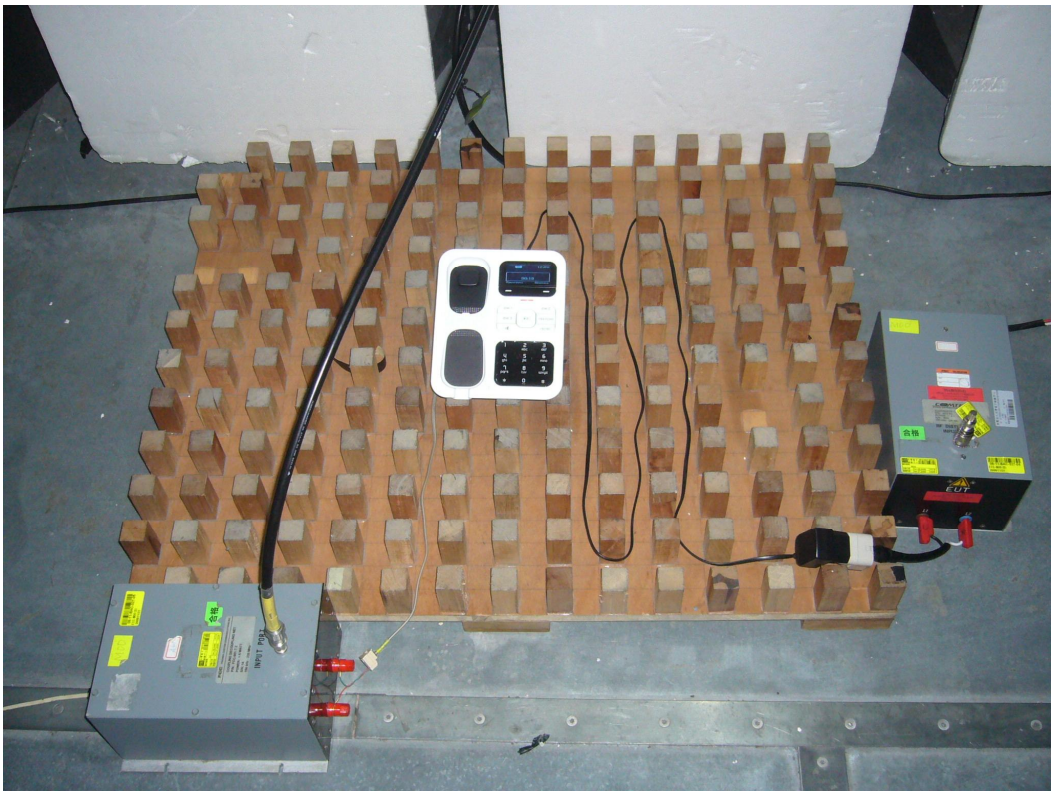
Note: " A " means the EUT operates with ■ BER less or equal than 1×10^{-3} during the test sequence.
■ the speech output signal level at least 35dB less than the previously recorded reference level.
■ no loss of user control functions or stored data and maintained communication link during and after the tests.
■ no unintentional transmission.

4.2.5.2 RF Common Mode, 0.15MHz~80MHz Test Setup Photos:

1. Power Line



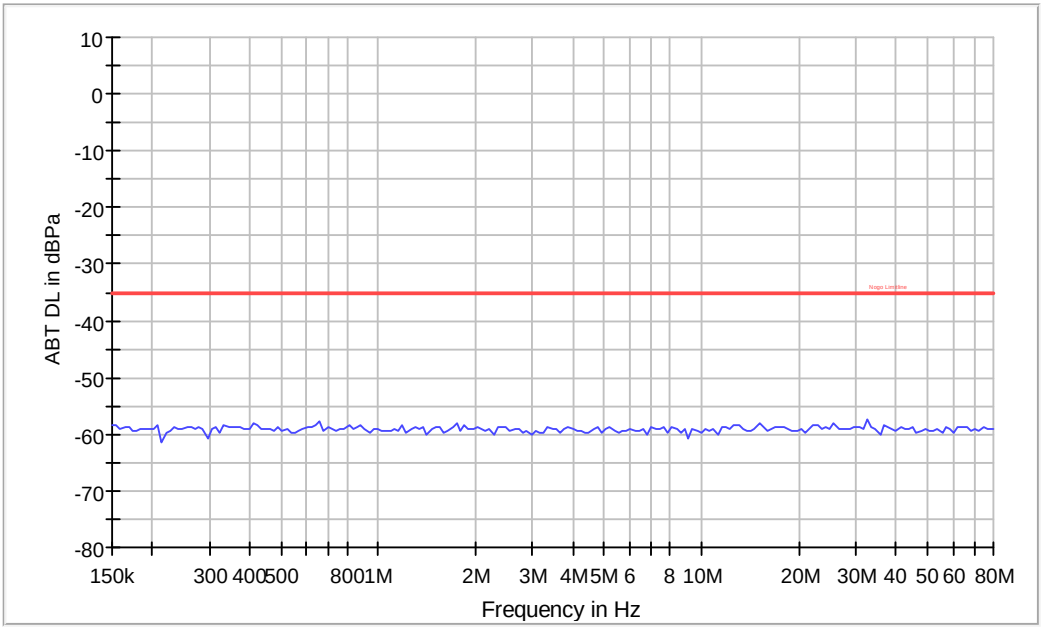
2. Tel Line



Common Information

Test Description:	POWER
Operating Conditions:	DL
Operator Name:	Eric
Comment:	

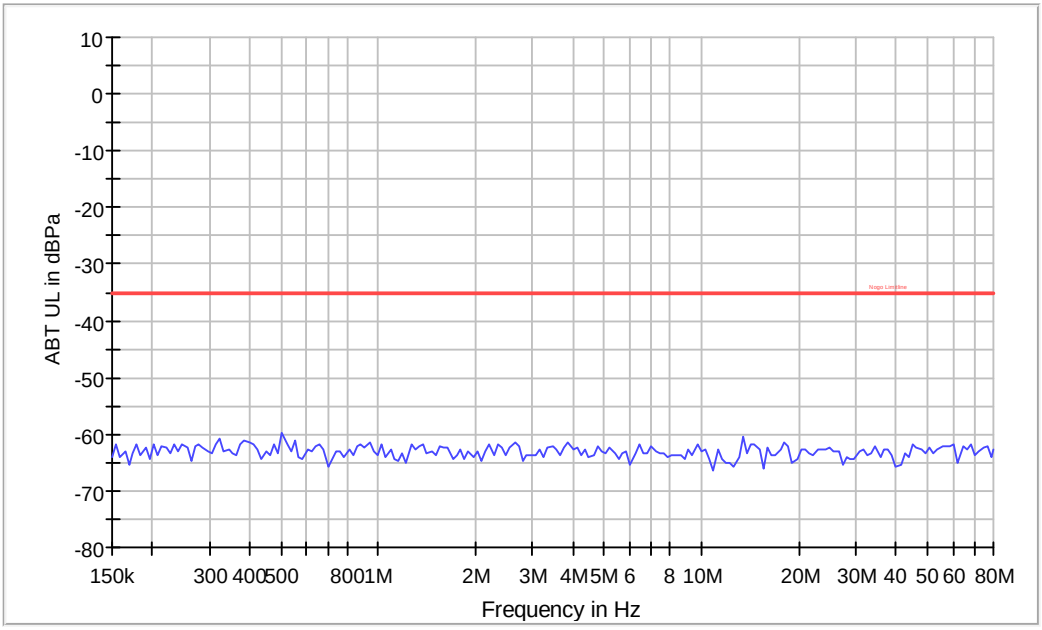
ABT DL



Common Information

Test Description:	POWER
Operating Conditions:	UL
Operator Name:	Eric
Comment:	

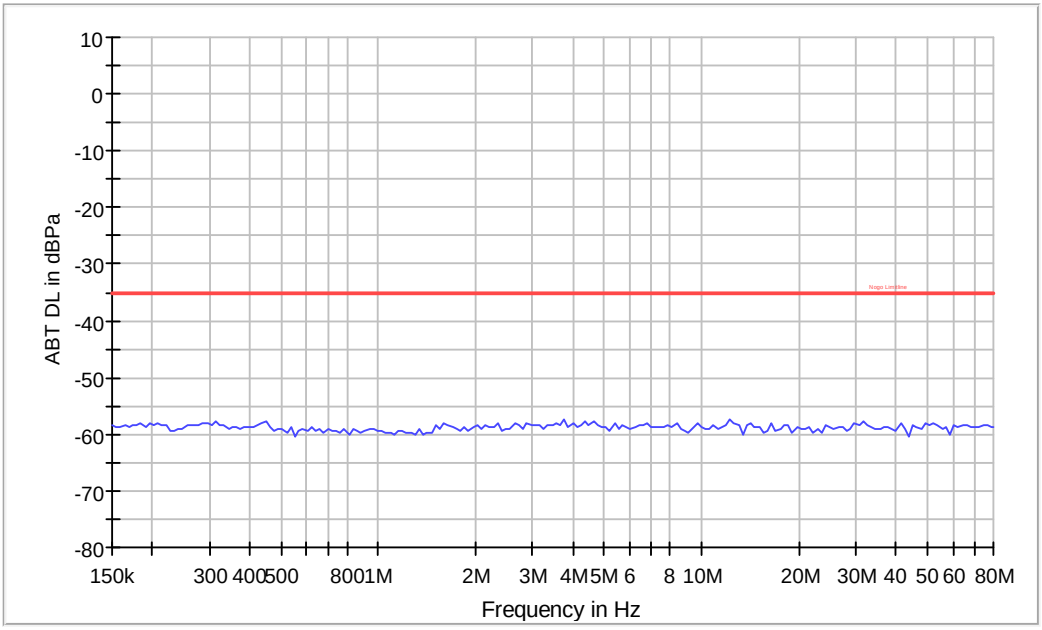
ABT UL



Common Information

Test Description:	TEL
Operating Conditions:	DL
Operator Name:	Eric
Comment:	

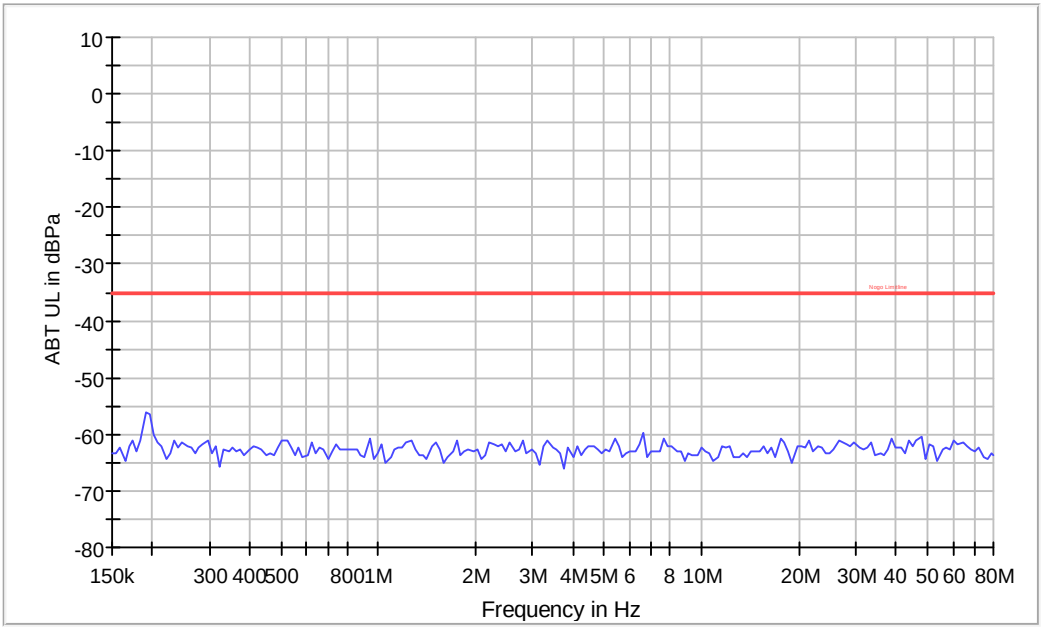
ABT DL



Common Information

Test Description:	TEL
Operating Conditions:	UL
Operator Name:	Eric
Comment:	

ABT UL



4.2.6 Voltage Dips and Interruptions:

4.2.6.1 Voltage Dips and Interruptions Test Data:

A. Operating Conditions of the EUT: Talking Mode

Test Date: Jul. 23, 2009

Test Specification	EN 61000-4-11:2004		
Test Equipment		Calibration Date	Recommended Recal. Date
EMC Immunity Test System\THERMO\EMCPRO PLUS		Oct. 24, 2008	Oct. 23, 2009
Climatic Condition	Ambient Temperature: 22◦ C Atmospheric Pressure: 992 mbar	Relative Humidity: 53 % RH	
Power Supply System	AC Power: 230 Vac 50 Hz		
Test Set-up	Table-top Equipment		

Test mode	Voltage dips	Durations (ms)	Interval (s)	Times	Phase	Result
Voltage interruptions	100%	5000	10	12	0° / 180°	C
Voltage dips in %U_T	100%	10	10	12	0°~360° Step 45°	A
	100%	20	10	12	0°~360° Step 45°	A
	30%	500	10	12	0°~360° Step 45°	A

Note: " A " means the EUT operates with ■ no user noticeable loss of the communication Link.
■ no loss of user control functions or stored data.
■ no unintentional transmission.

" C " means the EUT function was not correct during the test, which was recovered by operator after test.

4.2.6.2 Voltage Dips and Interruptions Test Setup Photos:

1. Outside view 1 of EUT (Adaptor)

2. **Outside view 2 of EUT (Adaptor)**